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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-GV-PMC-2014-15 Date: 02.05.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
AGENCY	:	**Sri.G.Vasu,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.
REFERENCE	:	EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CECTC-GV-PMC-2014-15 Date : 02.05.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.G.Vasu,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Date of Testing : 02.05.2014

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	132	13.20	20.70	79.3	75-100
1.18	122	12.20	32.90	67.1	55-90
600 Micron	208	20.80	53.70	46.3	35-59
300 Micron	214	21.40	75.10	24.9	8-30
150 Micron	182	18.20	93.30	6.7	0-10

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Job No.: CECTC-GV-PMC-2014-15 Date : 02.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.G.Vasu,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Date of Testing : 02.05.2014

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	302	2.01	2.01	97.99	95-100
20	8651	57.67	59.69	40.31	30-70
10	3598	23.99	83.67	16.33	10-35
4.75	2174	14.49	98.17	1.83	0-5

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Job No.: CECTC-GV-PMC-2014-15 Date : 02.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.G.Vasu,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Date of Testing : 02.05.2014

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	200	4.0	4.0	96.0	95-100
10	2832	56.6	60.6	39.4	25-55
4.75	1764	35.3	95.9	4.1	0-10

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Job No.: CECTC-GV-PMC-2014-15 Date: 31.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Contractor : **Sri.G.Vasu,** Contractor, Bangalore.

Name of the work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.05.2014	31.05.2014	8.154	509.6	22.65
2	03.05.2014	31.05.2014	8.116	517.4	23.00
3	03.05.2014	31.05.2014	8.149	529.3	23.52

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-GV-PMC-2014-15 **Date:** 30.05.2014

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.G.Vasu,** Contractor, Bangalore.
Name of the Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014
Location	At Site
Type of Mix	Wet Mix macadam
Date of Testing	30.05.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	374	382	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	289	296	298	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.73	22.51	22.80	22.68

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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